LIST OF CONTENTS

JANUARY

Ganesan Srinivasan, Jan F. M. Post and E. Brad Thompson	1	Optimal ligand binding by the recombinant human glucocorticoid receptor and assembly of the receptor complex with heat shock protein 90 correlate with high intracellular ATP levels in *Spodoptera frugiperda* cells
Shogo Kurebayashi, Yoshihiro Miyashita, Takahisa Hirose, Soji Kasayama, Shizuo Akira and Tadamitsu Kishimoto	11	Characterization of mechanisms of interleukin-6 gene repression by estrogen receptor
J. A. Sha, K. Dudley, W. R. A. K. J. S. Rajapaksha and P. J. O'Shaughnessy	19	Sequence of mouse 17β-hydroxysteroid dehydrogenase type 3 cDNA and tissue distribution of the type 1 and type 3 isoform mRNAs
Jiro Fujimoto, Satoshi Ichigo, Reiko Hirose, Masashi Hori and Teruhiko Tamaya	25	Expression of estrogen receptor exon 5 splicing variant (ER E5SV) mRNA in gynaecological cancers
Larry N. Petz, Ann M. Nardulli, Jongsook Kim, Kathryn B. Horwitz, Leonard P. Freedman and David J. Shapiro	31	DNA bending is induced by binding of the glucocorticoid receptor DNA binding domain and progesterone receptors to their response element
Christoph M. Bamberger, Ana-Maria Bamberger, Martin Wald, George P. Chrousos and Heinrich M. Schulte	43	Inhibition of mineralocorticoid activity by the β-isoform of the human glucocorticoid receptor
Arsenio Pompeo, Alberto Luini and Roberto Buccione	51	Functional dissociation between glucocorticoid-induced decrease in arachidonic acid release and inhibition of adrenocorticotropic hormone secretion in AtT-20 corticotrophs
Aleš Hamr, Philippe Delannoy, André Verbert and Jiřina Kolínská	59	The hydrocortisone-induced transcriptional down-regulation of β-galactoside α2,6-sialyltransferase in the small intestine of suckling rats is suppressed by mifepristone (RU-38.486)
Ya-Hua Zhuang, Merja Bläuer, Timo Ylikomi and Pentti Tuohimaa	67	Spermatogenesis in the vitamin A-deficient rat: possible interplay between retinoic acid receptors, androgen receptor and inhibin α-subunit
Taira Ohnishi and Yoshiyuki Ichikawa	77	Direct inhibitions of the activities of steroidogenic cytochrome P-450 monooxygenase systems by anticonvulsants
L. Verlinden, A. Verstuyf, C. Mathieu, B. K. Tan and R. Bouillon	87	Differentiation induction of HL60 cells by $1,25(OH)_2D_3$, all trans retinoic acid, rTGF-β_2 and their combinations
Hari K. Bhat, Ingo Springer, Srinivasan Rajaraman and Joachim G. Liehr	99	Immunocytochemical localization of *c-myc* and *c-jun* oncoproteins in hamster kidney and estrogen-induced kidney tumors
Aaron Hanukoglu, Omana Joy, Michael Steinitz, Ariel Rosler and Israel Hanukoglu	105	Pseudohypoaldosteronism due to renal and multisystem resistance to mineralocorticoids respond differently to carbenoxolone
J. Pinter and P. Thomas	113	The ovarian progestogen receptor in the spotted seatrout, *Cynoscion nebulosus*, demonstrates steroid specificity different from progesterone receptors in other vertebrates
Ana E. Lemus, Juana Enríquez, Gustavo A. García, Ivonne Grillasca and Gregorio Pérez-Palacios	121	5α-Reduction of norethisterone enhances its binding affinity for androgen receptors but diminishes its androgenic potency
Jeffrey H. Toney, Yuli Chen, Sue-Jane Rutledge, Azriel Schmidt and Alex Elbrecht	131	Non-steroidal L-245,976 acts as a classical antiandrogen *in vitro*
T. K. Kwan, M. A. Kraevskaya, H. L. J. Makin, D. J. H. Trafford and D. B. Gower	137	Use of gas chromatographic-mass spectrometric techniques in studies of androst-16-ene and androgen biosynthesis in human testis; cytosolic specific binding of 5α-androst-16-en-3-one
Jaleh Doostzadeh, Jean-Pierre Flinois, Philippe Beaune and Robert Morfin	147	Pregnenolone-7β-hydroxylating activity of human cytochrome P450–1A1
John B. Colerangle and Deodutta Roy	153	Profound effects of the weak environmental estrogen-like chemical bisphenol A on the growth of the mammary gland of Noble rats

FEBRUARY

Xian-Feng Zhao, Louise A. Scrocchi and Geoffrey L. Hammond 163 Glucocorticoids induce corticosteroid-binding globulin biosynthesis by immature mouse liver and kidney

Andrew L. Laslett, James R. McFarlane and Gail P. Risbridger 171 Developmental response by Leydig cells to acidic and basic fibroblast growth factor

Motoyuki Uchida, Keiichi Ozonco and J. Wesley Pike 181 *In vitro* binding of vitamin D receptor occupied by 24R,25-dihydroxyvitamin D_3 to vitamin D responsive element of human osteocalcin gene

Daniela M. Zisterer and D. Clive Williams 189 Calmidazolium and other imidazole compounds affect steroidogenesis in Y1 cells: lack of involvement of the peripheral-type benzodiazepine receptor

Martin Schmidt and Georg Löffler 197 RU486 is a potent inhibitor of aromatase induction in human breast adipose tissue stromal cells

María Claudia González Deniselle, Susana González, Gerardo Piroli, Mónica Ferrini, Analía E. Lima and Alejandro F. De Nicola 205 Glucocorticoid receptors and actions in the spinal cord of the Wobbler mouse, a model for neurodegenerative diseases

Toshikazu Kigoshi, Shigeru Nakano, Hiroshi Okamoto, Noriko Imaizumi, Mitutaka Kitazawa, Takashi Ishii, Shinpei Morimoto and Kenzo Uchida 215 Enhancement of potassium-, and angiotensin II-stimulated aldosterone production by the calcium chelator EGTA in bovine adrenal glomerulosa cells *in vitro*

Nora Artagaveytia, Salima Le Penven, Nicole Falette, Rosana Lucero, Elsa G. Garófalo and Simone Saez 221 Epidermal growth factor and transforming growth factor alpha mRNA expression in human breast cancer biopsies; analysis in relation to estradiol, progesterone and EGF receptor content

Miles Orchinik, Nicholas Hastings, Diane Witt and Bruce S. McEwen 229 High-affinity binding of corticosterone to mammalian neuronal membranes: possible role of corticosteroid binding globulin

David A. Sullivan and Joan A. Edwards 237 Androgen stimulation of lacrimal gland function in mouse models of Sjögren's syndrome

K. Yang, M. W. Khalil, B. J. Strutt and D. W. Killinger 247 11β-Hydroxysteroid dehydrogenase 1 activity and gene expression in human adipose stromal cells: effect on aromatase activity

E. G. W. M. Lentjes, F. P. T. H. M. Romijn and A. J. Moolenaar 255 Isotope effect in the binding of tritium and ^{14}C-labelled cortisol to corticosteroid-binding-globulin in serum

MARCH

Anait S. Levenson, William H. Catherino and V. Craig Jordan 261 Estrogenic activity is increased for an antiestrogen by a natural mutation of the estrogen receptor

Mohammed K. K. El-Tanani and Chris D. Green 269 Interaction between estradiol and growth factors in the regulation of specific gene expression in MCF-7 human breast cancer cells

Mónica M. Muñoz de Toro and Enrique H. Luque 277 Lack of relationship between the expression of hsp27 heat shock estrogen receptor-associated protein and estrogen receptor or progesterone receptor status in male breast carcinoma

Sandra Mattick, Kevin Glenn, Georgius de Haan and David J. Shapiro 285 Analysis of ligand dependence and hormone response element synergy in transcription by estrogen receptor

Craig A. Smith, Jane E. Andrews and Andrew H. Sinclair 295 Gonadal sex differentiation in chicken embryos: expression of estrogen receptor and aromatase genes

Richard L. Tolman, Soumya P. Sahoo, Raman K. Bakshi, Dominick Gratale, Gool Patel, Sushma Patel, Jeffrey Toney, Benedict Chang and Georgianna S. Harris 303 4-Methyl-3-oxo-4-aza-5α-androst-1-ene-17β-N-aryl-carboxamides: an approach to combined androgen blockade [5α-reductase inhibition with androgen receptor binding *in vitro*]

Xiaodong Li, Paul J. Bertics and Harry J. Karavolas 311 Regional distribution of cytosolic and particulate 5α-dihydroprogesterone 3α-hydroxysteroid oxidoreductases in female rat brain

Peter H. Jellinck, Firdaus S. Dhabhar, Randall R. Sakai and Bruce S. McEwen 319 Long-term corticosteroid treatment but not chronic stress affects 11β-hydroxysteroid dehydrogenase type I activity in rat brain and peripheral tissues

Naoko Yamada-Mouri, Shuji Hirata, Junzo Kato and Kazuhiko Hoshi 325 Expression and distribution of cortical type aromatase mRNA variant in the adult rat brain

Gregory H. Corsan, Paul C. MacDonald and M. Linette Casey 331 Origin of deoxycorticosterone sulfate (DOC-SO_4) in plasma of pregnant women: pregnenolone-3,21-disulfate is a placental precursor of DOC-SO_4

Sylke Irrgang, Dietmar Schlosser and Wolfgang Fritsche 339 Involvement of cytochrome P-450 in the 15α-hydroxylation of 13-ethyl-gon-4-ene-3,17-dione by *Penicillium raistrickii*

S. E. Barrie, B. P. Haynes, G. A. Potter, F. C. Y. Chan, P. M. Goddard, M. Dowsett and M. Jarman 347 Biochemistry and pharmacokinetics of potent non-steroidal cytochrome $P450_{17\alpha}$ inhibitors

Gerard M. Cooke, François Pothier and Bruce D. Murphy 353 The effects of progesterone, 4,16-androstadien-3-one and MK-434™ on the kinetics of pig testis microsomal testosterone-4-ene-5α-reductase activity